

WHAT IS CLAIMED IS:

- 1 1. A cut stone, comprising:
2 a pavilion portion having a culet;
3 a crown portion;
4 a girdle separating said pavilion portion from said crown portion;
5 a plurality of pavilion main facets extending between said girdle and said culet; and
6 three lower girdle facets between each adjacent pair of said pavilion main facets,
7 said lower girdle facets each having a top side along said girdle and a lower vertex
8 extending toward said culet.

- 1 2. The stone of claim 1, wherein said crown has a table, a plurality of star facets
2 encircling said table, a bezel facet between adjacent star facets and said girdle, and three
3 upper girdle facets between adjacent bezel facets, said upper girdle facets each having a
4 lower side along said girdle and an upper common vertex extending toward said table.

- 1 3. A cut stone, comprising:
2 a pavilion portion having a culet;
3 a crown portion;
4 a girdle separating said pavilion portion from said crown portion; and
5 a plurality of pavilion main facets extending from near said culet toward said girdle;
6 wherein said pavilion main facets vary in width.

- 1 4. The stone of claim 3, wherein said pavilion main facets alternate in a clockwise
2 direction between thick pavilion main facets and thin pavilion main facets.

- 1 5. The stone of claim 4, wherein said thick pavilion main facets are at least about 30
2 percent thicker than said thin pavilion main facets and wherein said thick pavilion main
3 facets are at most about 60 percent thicker than said thin pavilion main facets.

- 1 6. The stone of claim 3, further comprising a table on said crown;
2 wherein:

3 said table has a plurality of sides; and
4 said plurality of pavilion main facets equals the number of sides of said table.

1 7. The stone of claim 3, further comprising:
2 a table on said crown; and
3 a plurality of bezel facets on said crown, said bezel facets each having an upper
4 vertex at said table and a lower vertex at said girdle;
5 wherein said pavilion main facets terminate in an upper vertex at said girdle in
6 substantial alignment with said lower vertex of a corresponding bezel facet of said crown.

1 8. A cut stone, comprising:
2 a pavilion portion having a culet;
3 a crown portion;
4 a girdle separating said pavilion portion from said crown portion;
5 a plurality of pavilion main facets extending between said girdle and said culet; and
6 three lower girdle facets between each adjacent pair of said pavilion main facets;
7 wherein at least one of said lower girdle facets is rotated so that said at least one
8 lower girdle facet is not tangent to a circumference about said stone.

1 9. The stone of claim 8, wherein a middle of said three lower girdle facets is said
2 rotated lower girdle facet.

1 10. A cut stone, comprising:
2 a pavilion portion having a culet;
3 a crown portion having a table with a predetermined number of sides;
4 a girdle separating said pavilion portion from said crown portion; and
5 three upper girdle facets per side of said table, said upper girdle facets each having a
6 bottom side along said girdle and an upper vertex extending toward said table.

1 11. The stone of claim 10, further comprising:
2 a plurality of pavilion main facets extending between said culet and said girdle; and

3 three lower girdle facets per side of said table on said pavilion portion between
4 adjacent pairs of pavilion main facets;
5 wherein said lower girdle facets each have a top side along said girdle and a lower
6 vertex extending toward said culet.

1 12. A method for cutting a stone, said method comprising:
2 forming a pavilion portion having a culet;
3 forming a crown portion having a table with a predetermined number of sides;
4 forming a girdle separating said pavilion portion and said crown portion; and
5 forming three upper girdle facets per side of said table, said upper girdle facets each
6 having a bottom side along said girdle and an upper vertex extending toward said table.

1 13. The method of claim 12, further comprising:
2 forming a plurality of pavilion main facets on said pavilion extending between said
3 culet and said girdle; and
4 forming three lower girdle facets on said pavilion portion between adjacent pairs of
5 pavilion main facets, said three lower girdle facets each having an upper side along said
6 girdle and a vertex extending downward toward said culet.

1 14. A method for cutting a stone, said method comprising:
2 forming a crown portion;
3 forming a pavilion portion;
4 forming a girdle separating said crown portion from said pavilion portion;
5 forming a plurality of pavilion main facets on said pavilion portion between said
6 culet and said girdle; and
7 forming three lower girdle facets between adjacent pavilion main facets on said
8 pavilion portion, said three lower girdle facets each having an upper side along said girdle
9 and a lower vertex extending toward said culet.

1 15. The method of claim 14, further comprising:
2 forming a table on said crown with a plurality of sides;
3 forming a star facet extending from each side of said table;
4 forming bezel facets between said star facets, said bezel facets each extending from

5 a lower vertex at said girdle to an upper vertex at said table; and
6 forming three upper girdle facets on said crown portion, said upper girdle facets
7 extending to a common vertex on an upper portion of said crown and each having a lower
8 side along said girdle

1 16. A method for cutting a stone, said method comprising:
2 forming a crown portion;
3 forming a pavilion portion including a culet;
4 forming a girdle separating said crown portion from said pavilion portion; and
5 forming a plurality of pavilion main facets on said pavilion portion, said pavilion
6 main facets varying in thickness.

1 17. The method of claim 16, further comprising forming said pavilion main facets with
2 thicknesses alternating between thick pavilion main facets and thin pavilion main facets.

1 18. The method of claim 17, wherein said thick pavilion main facets are at least about
2 30 percent thicker than said thin pavilion main facets and at most about 60 percent thicker
3 than said thin pavilion main facets.

1 19. A method for cutting a stone, said method comprising:
2 forming a crown portion;
3 forming a pavilion portion including a culet;
4 forming a girdle separating said crown portion from said pavilion portion; and
5 forming a lower girdle facet on said pavilion portion rotated not to be tangent to a
6 general circumference of said stone.

1 20. The method of claim 19, further comprising forming multiple lower girdle facets on
2 said pavilion portion rotated to not be tangent to the general circumference of said stone.